public address system for the benefit of fishermen. The public address system is also used for announcing various government schemes related to fishermen on a regular basis. The network played an important role immediately following the first Tsunami attack and in post Tsunami relief.

Brain drain of scientists and technologists

4596. SHRI C. PERUMAL: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether there is a brain drain of scientists and technologists in the country;

(b) if so, the reasons therefor; and

(c) the steps that have been taken to check brain drain of scientists and technologists?

THE MINISTER OF STATE OF THE MINISTRY OF SCIENCE AND TECHNOLOGY (SHRI KAPIL SIBAL): (a) and (b) Some scientists and technologists do migrate to other countries for various reasons including financial and academic gains. However, no record of such scientists and technologists leaving the country is being maintained centrally.

(c) Several measures have been taken from time to time by the Government to check the brain drain of scientists and technologists. Some of these measures are:

- Setting up of centres of excellence/advanced studies in the universities and academic institutions.
- Creation of core groups of professionals with necessary modern facilities required for pursuing research in new and frontier areas of science.
- S&T based training for entrepreneurial development.
- Increase in the outlay for science and technology sector in successive Five Year Plan.
- Creation of new/scientific Departments/Organisations.
- Delegation of advanced administrative and financial powers to S&T institutions to improve working conditions of scientists.
- Manpower development training/re-training programmes through associateships/fellowships.

- Provisions for temporary placement of scientists and technocrats under the scheme of scientist's pool.
- Creation of supernumerary posts.
- Invitation to distinguished men and women of Indian origin settled abroad for short term technical assignments to assist in frontier and emerging areas of S&T.
- Fast Track Scheme for Young Scientists.
- Better Opportunities for Young Scientists in Chosen Areas of Science and Technology (BOYSCAST) fellowship to visit international laboratories and institutions.
- Swarnajayanti Fellowships.
- Mission HOPE (Higher Education-Opportunities for Promoting Entrepreneurship) with the aim of converting aspirations to real enterprises (CARE).
- Contact programmes to attract and motivate brilliant young scientists to take up R&D as a career.
- Scientists are given financial assistance to participate in international conference and training programmes abroad.
- Shyama Prasad Mukherjee Fellowships.
- Early Faculty Induction Programme, which aims at attracting bright and young under-graduate students in Engineering and Technology/Pharmacy/Architecture, etc. to take-up as their career.
- Appointment of NRIs and persons of Indian Origin in the permanent faculty positions in the IITs.

Ocean research after Tsunami

4597. SHRI RAJU PARMAR: Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether National Institute of Oceanography has conducted any ocean research after Tsunami;

(b) if so, the details thereof;

(c) whether Government propose to enhance the funds of above Institute for research work; and